Notes From Network Workshop

Local Area Network Standards:

Note: The need for a business case exception processed was discussed – and agreed to – as a prelude to selecting the following LAN standards.

Category	Standard
Media	Copper wire – cat 5e (also cabling of all types should conform to all applicable. Building codes) Fiber – multi-mode (62.5/125), single mode
Bandwidth	Switched 100 to desktop Gigabit on the backbone
Quality of Service (QOS)	Non-propriety (802.x)
Management Tools	All equipment must be SNMP capable. *NOTE: anything residing on the network MUST be managed.*
Switches	Must be to IEEE standards – Cisco @ this time [1]
Routers	Must be to IEEE standards – Cisco @ this time [1]
Firewall	Cisco based solution
Virtual Private Network	Cisco
Protocols	IP

Wide Area Network Standards:

Note: With regards to redundancy, availability/performance issues should be taken into consideration during design. A need exists for a high speed citywide wired infrastructure.

Category	Standard
Routers	Must be to IEEE standards – Cisco @ this time [1]
Connectivity Link	T1 or greater
QOS	Not using at this time, but is needed

Remote Access Standards:

Note: these standards are to work in concert with the "wireless standards" the previous workgroup developed, and are to be encrypted unless otherwise noted below.

Category	Standard
Wired Access (Starting from an un-secure site)	Dial-up – Non-Encrypted. Must go through centralized authentication. VPN – Cisco based solution
Wireless Access Points (AP)	Proprietary right now. Needs to be determined. Need only one. Note: Companion on client IS mandatory.

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[1] Cisco is the current standard for routers and switches. It was recognized by the committee that there may either be a need or preference to competitively bid these items in the future. Most likely this would be done when the organization was pursuing a large single purchase.

Server Operating System Standard(s):

Note: Group felt the need in a protected environment, to test Linux.

Category	Standards
Windows:	Windows 2000 (with Active Directory)
Unix: [2]	Solaris
Hardened	All servers must be hardened, preferably by the vendor.

Server Hardware Standard:

Category	Standards
Single server vendor for: - Unix - Windows	Will be determined through RFP process. It should be noted that a committee would be assigned to determine the best-suited platform from the responses to the RFP. Note – Currently, Sun is the UNIX server vendor utilized at this time.

Management & Administration:

Category	Standards
Management Software	- Cisco Works - Sun Management Center

[2] Note, Oracle databases are to be run on Unix. The current Unix standard is Solaris.